

Clean Set of Amended Claims

SUB B17 1. (Amended) A method for updating multimedia feature information in a multimedia retrieval system using weight of multimedia features and reliability of the weight, comprising:

- (a) evaluating a retrieval performance using multimedia feature information;
- (b) detecting change of retrieval environment based on the retrieval performance evaluation; and
- (c) updating the weight of the multimedia feature information and reliability of the weight by reflecting the retrieval performance evaluation and the retrieval environment change.

AS 2. (Amended) A method for updating multimedia feature information in a multimedia retrieval system using weight of multimedia features and reliability of the weight, comprising:

- retrieving multimedia using previous weight;
- receiving one or more user feedbacks with respect to results of the multimedia retrieval;
- calculating retrieval performance with respect to the results of present retrieval using the one or more user feedbacks;
- updating a present weight using the one or more user feedbacks;

updating the reliability of the present weight by reflecting the calculated retrieval performance; and

updating the present weight using the updated reliability.

18 3. (Amended) The method as claimed in claim 1, wherein updating reliability of the weight is proportionally influenced by the retrieval performance.

4. (Amended) The method as claimed in claim 1, wherein updating reliability of the weight is proportionally influenced by improvement of the retrieval performances.

SUB B37 7. (Amended) The method as claimed in claim 1, wherein the reliability is calculated by a following formula:

previous reliability  $\times$  (1 + reliability increment) +  $\alpha$

A9 wherein,

reliability increment: a function that multiplies the difference between the present and previous retrieval performance with the number of feedbacks.

$\alpha$ : constant for making the reliability value proportional to the number of feedbacks in same condition.

SUB B57

9. (Amended) The method as claimed in claim 1, wherein the reliability is calculated by a following formula:

previous reliability  $\times$  (1 + reliability increment) +  $\alpha$

wherein,

reliability increment: a function that multiplies the rate of the present retrieval performance to the previous retrieval performance with the number of feedbacks.

$\alpha$ : constant for making the reliability value proportional to the number of feedbacks in same condition.

SUB B77

11. (Amended) A method for updating weight of multimedia features using reliability of the weight in a multimedia retrieval system using weight among multimedia features and weight among elements of the multimedia feature, wherein the weight is updated based on the following way that:

(a) learning rate of the weights among the multimedia features is higher than that of the weights among elements of a multimedia feature.

SUB B97

13. (Amended) A multimedia data structure for retrieval of multimedia objects using weight among multimedia features and weight among elements of the multimedia feature, wherein the weight is updated based on the following way that:

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A12 ~~(a) learning rate of the weights among the multimedia features is higher than that~~  
of the weights among elements of a multimedia feature.

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